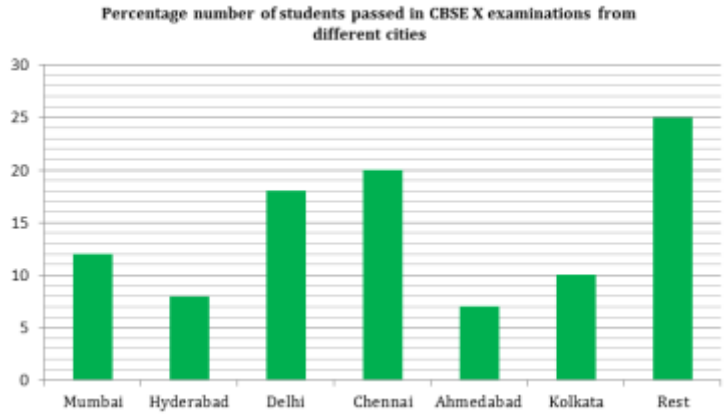
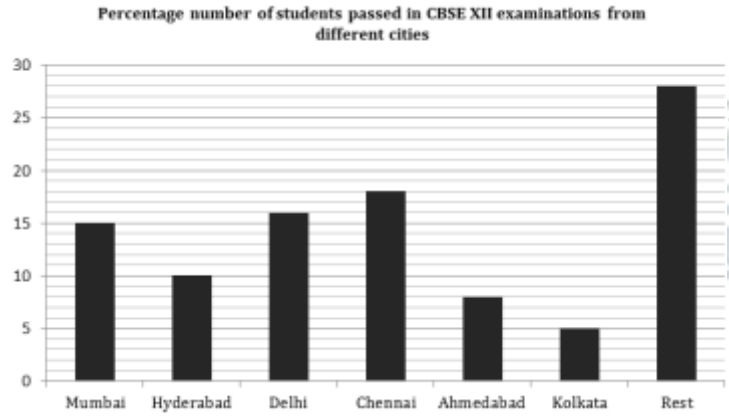
QUANTITATIVE APTITUDE PRACTICE MOCK

Direction (51-55): Study the following graphs and table carefully and answer accordingly;





The following table shows the ratio of the number of boys and girls passing from different cities.

City	X		XII	
	Boys	Girls	Boys	Girls
Delhi	2	3	3	5
Kolkata	9	8	7	8
Mumbai	4	7	3	5
Chennai	13	11	9	7
Ahmedabad	7	5	4	7
Hyderabad	12	13	5	8
Rest	5	9	7	8

51. In X exam, if there are 1000 girls passing from Ahmedabad then find the approx number of boys passing from Chennai in the same exam.
1) 3250 2) 3430 3) 3750
4) Data inadequate 5) 3715

52. If 9000 students passed in XII exam from Mumbai, then find the number of girls passing from Delhi in the same exam.
1)9600 2) 5760 3) 6000
4) Data inadequate 5) None of these

53. Which of the following cities shows the maximum percentage of girls passing (with respect to total students passing in that city) in X examination?
1) Delhi 2) Mumbai 3) Chennai
4) Rest 5) Hyderabad

54. If the difference between the number of boys passing from Chennai and that from Delhi in XII exam is 3630, find the total number of students passed in XII exam in 2013. '
1) 72000 2) 88000 3) 90000
4) Can't say 5) None of these

55. In X exam, if 1.20 lakh students pass, then what will be the **approx** number of boys passing in the remaining part of the country?
1) 10700 2) 10720 3) 10740
4) 10680 5) 10760

Directions (56-60): The following questions are accompanied by three statements A, B and C. You have to determine which statement(s) is/are necessary/sufficient to answer the question.

56. A bag contains balls of only three different coloursie, red, yellow and green. 3 balls are drawn randomly. What is the probability that the balls drawn are of three different colours?
A. The no. of yellow balls is two more than the no. of red balls.
B. The Sum of the no. of yellow and green balls is three times the no. of red balls.
C. The ratio of the no. of red balls to that of green balls is 3 : 4.
1) A and either B or C 2) Any two of them 3) Only A and C together
4) Question can't be answered even after using all the information
5) All statements are required

57. What will be the average of three numbers?
A. The largest no. is greater than the smallest by 20.

B. The sum of the largest and smallest nos. is equal to twice the middle one.

C. The difference of the first two numbers is 10.

1) Only A and C together

2) Only B and C together 3) Any two of them

4) Question can't be answered even after using all the information

5) All statements are required

58. What is the cost price of a table?

A. By selling the table for Rs. 600 instead of Rs. 500, loss per cent decreases by 10%.

B. When the cost price of the table increases by 10% and then decreases by 10%, it reduces by Rs. 10.

C. By selling the table and a chair for Rs. 1500 a net profit of 25% is made.

1) Only A or B alone 2) Only B or C alone

3) Only A and C together

4) Any two of them together

5) Either B alone or A and C together are sufficient

59. What is the speed of train 'x'?

A. Train x crosses a 140-metre-long train y running in opposite direction in 10 seconds.

B. Train x crosses a 400-metre long railway platform in 28 seconds

C. Train x crosses a man standing on the railway platform in 8 seconds.

1) Only A and B together 2) Only B and C together

3) Only B and C together

4) Any two of them

5) All statements are required to answer the question

60. The total of the present ages of P, Q, R and S is 96 years. What is Q's present age?

A. The average age of P, Q and S is 20 years.

B. The average age of Q and S is 20 years.

C. The average age of R and S is 25 years.

1) Only A and B together

2) Only B and C together

3) Any two of them

4) Question can't be answered even after using all he information

5) All statements are required

Directions (61-65): Study the information carefully and answer the given questions.

In a company total 2700 employees work in five different departments, namely A,B, C, D, and E. The ratio of males to females in the company is 5 : 4. 26% of the female employees work in department A and 14% of the male employees work in department B. The difference between the male and female employees in department A is 138 and the ratio of male to female employee in department B is 7 : 6. The total number of employees working in department C is 210, in which the number of female employees is 75% of the total number of males. The number of females working in department D is equal to the total number of males working in department B and the number of males working in department D is three more than the number of females working in department A. The remaining male and female employees work in department E.

61. What is the total number of females working in department E ?

1)397 2) 408 3) 415

4) 418 5) None of these

62. The total number of males working in department D is what per cent of the total number of males working in the company?

1) 15% 2) 18% 3) 21%

4) 24% 5) 27%

63. The total number of females working in department B is what per cent of the total number of males working in department A?

1) 25% 2) 30% 3) 36%

4) 40% 5) 45%

64. The number of females working in department C is what per cent of the number of males working in the same department?

1) 120% 2) 133% 3) 80%

4) 75% 5) 60%

65. What is the ratio of the number of males working in department E to the number of males working in department A ?

1) 4 : 5 2) 8 : 9 3) 9 : 10

4) 14 : 15 5) None of these

Directions (66-70): In the following questions numbered I and II are given. You have to solve both equations and given answer.

(a) if $x > y$ (b) if $x \geq y$ (c) if $x < y$

(d) $x \leq y$

(e) if $x = y$ or the relationship cannot be established

66. (i) $96x^2 - 124x + 35 = 0$ (ii) $72y^2 + 54y - 35 = 0$

67. (i) $x^2 + 28x + 192 = 0$ (ii) $y^2 + 16y + 48 = 0$

68. (i) $2x - 3y = -3.5$ (ii) $3x - 2y = -6.5$

69. (i) $x^2 + 8x + 15 = 0$ (ii) $y^2 + 11y + 30 = 0$

70. (i) $x = \sqrt{3136}$ (ii) $y^2 = 3136$

Directions (71-75): What will come in place of the question mark (?) in the following number series?

71. 117 389 525 593 627 (?)

(1) 654 (2) 640 (3) 634

(4) 630 (5) None of these

72. 7 11 23 51 103 (?)

(1) 186 (2) 188 (3) 185

(4) 187 (5) None of these

73. 18 27 49 84 132 (?)

(1) 190 (2) 183 (3) 180

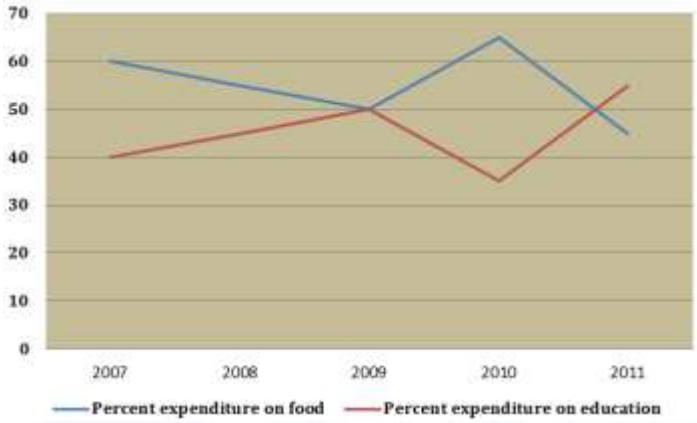
(4) 193 (5) None of these

74. 6 4 4 6 16 (?)
(1) 70 (2) 16 (3) 32
(4) 40 (5) None of these

75. 655 439 314 250 223 (?)
(1) 3335 (2) 3300 (3) 3299
(4) 3600 (5) None of these

Directions (76-80): Read the following graph and table carefully and answer the questions given below.

Percentage expenditure on food and education of a person in different years



Total expenditure of person

Year	Total expenditure
2007	4000
2008	4400
2009	5000
2010	5600
2011	6000

76. What is the respective ratio between the expenditure on food in 2007 and expenditure on education in 2011?
(1) 3:2 (2) 5:9 (3) 8:11
(4) 7:5 (5) None of These

77. Whatis the average expenditure on education in all the years together?
(1)2268 (2) 2080 (3) 2130
(4) 2426 (5) None of these

78. In which of the following years the expenditure on food the maximum?
(1) 2008 (2) 2007 (3) 2011
(4) 2009 (4) None of these

79. The expenditure on food in 2008 is **approximately** what percent more than the expenditure on education in 2010?
(1) 19 (2) 23 (3) 28
(4) 32 (5) 12

80. In which of the following years the amount of expenditure on education is the minimum?
(1) 2008 (2) 2011 (3) 2009
(4) 2007 (5) None of these

81. A railway half ticket costs half the full fare, but the reservation charge on the half ticket is the same as that on full ticket. One reserved first class ticket for a journey, between two stations is Rs 525 and the cost of one full and half reserved first class ticket is Rs 850. What is the reservation charge?
(1) Rs 125 (2) Rs 2003 (3) Rs 145
(4) Cannot be determined (5) None of these

82. Smita was asked to multiply a certain number by 36. She multiplied it by 63 instead and got an answer 3834 more than the correct one. What was the number to be multiplied?
(1) 152 (2) 126 (3) 142
(4) 148 (5) None of these

83. Manish borrowed a sum of Rs.1150 from Anil at the simple interest of 6 p.c.p.a for 3 years. He then added some more money to the borrowed sum and lent it to Sunil for the same time at 9 p.c.p.a at simple interest. If Manish gains Rs. 274.95 by way of interest on the borrowed sum as well as his own amount from the whole transaction then what is the sum lent by him to Sunil?
(1) Rs. 1290 (2) Rs. 1785 (3) Rs. 1285
(4) Rs. 1200 (5) None of these

84. One year ago the ratio of the ages of Sarika and Gaurav was 3:4 respectively. One year hence the ratio of their ages will be 10:13 respectively. What is Sarika present age?
(1) 18 years (2) 20 years (3) 26 years
(4) Cannot be determined (5) None of these

85. Milind takes as much time in running 15 metres as a car takes in covering 40 metres. What will be the distance covered b yMilind during the time the car covers 2 km?
(1) 1000 metres (2) 600 metres (3) 650 metres
(4) 750 metres (5) None of these

86. Four milkman rented a pasture. A grazed 15 cows for 4 months, B grazed 12 cows for 2 months, C grazed 18 cows for 6 months and D grazed 16 cows for 5 months. If A's share of rent is Rs 1020, what is C's share of rent?
(1) Rs 1836 (2) Rs 1360 (3) Rs 816
(4) Cannot be determined (5) None of these

Directions (87-89): A bag contains 4 red, 5 yellow and 6 green balls. 3 balls are drawn randomly.

87. What is the probability that ball drawn contain exactly 2 green balls?
(1) 27/91 (2) 20/91 (3) 54/91
(4) 27/49 (5) None of these

88. What is the probability that balls drawn contain exactly 2 yellow balls?
(1) 20/91 (2) 27/91 (3) 54/455

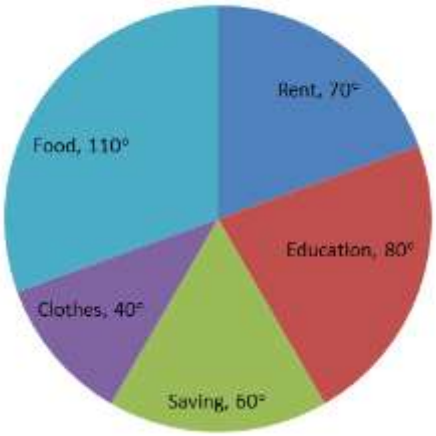
(4) 27/49 (5) None of these

89. What is the probability that balls drawn contain exactly 2 red balls?
(1) 20/91 (2) 19/91 (3) 12/19
(4) 91/20 (5) None of these

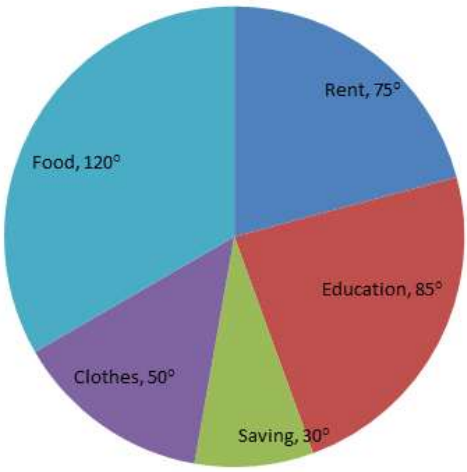
90. There are 3 red balls, 4 blue balls and 5 white balls. 2 balls are chosen randomly. Find probability that 1 is red and the other is white.
A. 5/22 B. 5/23 C. 7/22
D. 4/9 E. None of these

Directions (91-95): Following pie-charts show the distribution of annual expenditure of two persons A and B. Answer the following question based on these charts. Total expenditure of A and B is Rs. 4.5 and 5.4 lakhs respectively.

Person A



Person B



91. What is the amount person A and person B save yearly?
1) 1.25 lakhs 2) 1.20 lakhs 3) 1.15 lakhs
4) 1.10 lakhs 5) 1.5 lakhs

92. What is the ratio of the amount spent on clothe by person A than that of person B?
1) 4:5 2) 3:5 3) 2:3
4) 3 :4 5) None of these

93. Money spent by person B on food is what percentage of the money spent by person A on education?
1) 80% 2) 100% 3) 120%
4) 150% 5) 180%

94. What is the average of the amount spent for house rent by person A and person B?
1) 0.75 lakhs 2) 0.84 lakhs 3) 1lakhs
4) 1.2 lakhs 5) 1.25 lakhs

95. Money spent by Person B on education is how much percentage more than that of money spent by Person A on education?
1) 20% 2) 22 5% 3) 25%
4) 27.5% 5) 32%

96. A cistern has 3 pipes A, B and C. A and B can fill it in 3 hours and 4 hours respectively while C can empty the completely filled cistern in 1 hour. If the pipes are opened in order at 3, 4 and 5 p.m. respectively, at what time will the cistern be empty?
(1) 6 : 15 p.m. (2) 7 : 12 p.m (3) 8 : 12 p.m.
(4) 8 : 35 p.m. (5) None of these

97. A steamer goes downstream from one port to another in 4 hours. it covers the same distance upstream in 5 hours. if the speed of stream is 2 km/hr., the distance between the two ports is
(1) 50 km (2) 60 km (3) 70 km
(4) 80 km (5) None of these

98. In an alloy, zinc and copper are in the ratio 1 : 2. In the second alloy, the same elements are in the ratio 2 : 3. In what ratio should the two alloys be mixed so that the resultant alloy contains zinc and copper in the ratio 5 : 8,
(1) 3 : 10 (2) 3 : 7 (3) 10 : 3
(4) 7 : 3 (5) None of these

99. Mr. NileshAgrawal opened a workshop investing Rs. 40,000. He invested additional amount of Rs. 10,000 every year. After two years his brother Suresh joined him with an amount of Rs. 8,5000. Thereafter Suresh did not invest any additional amount. On completion of four years from the opening of workshop they earned an amount of Rs. 1,95,000. What will be Nilesh's share in the earning?
(1) Rs. 85000 (2) Rs.1,10,000 (3) Rs. 1,35,000
(4) Rs. 95,000 (5) None of these

100. A tradesman, who was selling one kind of tea at Rs. 96 per kg with a loss of 20% and another kind at Rs. 140 per kg with a gain of 25%, mixes the two together in equal ratio. He sells the mixed tea at Rs. 174 per kg. his gain is
(1) 50% (2) 45% (3) 30%
(4) 25% (5) None of these